

OPTICAL ENCODER DEVICES AND METHODS USING A
CONTINUOUSLY SCALED CODE DISK

ABSTRACT OF THE DISCLOSURE

5 A code disk, an optical encoder using such a disk and a method thereof are described. The code disk includes a first region on the disk and a second region that is adjacent to the first region. The first region increases continuously in size in a radial direction from a minimum at a first angular position to a maximum that occurs 360 degrees from the first angular

10 position. One of the first and second regions allows light to be transmitted therethrough to a detector, and the other of the first and second regions prevents light from being transmitted therethrough. The detector generates an output that corresponds to the amount of light transmitted through the code disk.